

The logo for iGroup, featuring a small yellow square above the letter 'i' in the word 'iGroup', which is rendered in a bold, black, sans-serif font.

iGroup

The background of the slide is a photograph of a library with tall wooden bookshelves filled with books, viewed from a low angle looking up. The image is overlaid with a semi-transparent white rectangular box containing the title text. The bottom of the slide features a decorative orange and yellow curved graphic element.

SPIE（国际光学工程学会）数字图书馆 使用指南

提纲 CONTENTS



-  **1 SPIE 出版社介绍**
——背景、学会、学科与应用领域
-  **2 SPIE 出版物介绍**
——会议录、期刊、电子图书
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SPIE. (国际光学工程学会)

- SPIE (the International Society for Optics and Photonics) 成立于1955年，服务于来自约155个国家超过256,000名成员。其目的是通过跨学科信息交流、继续教育、专利项目、职业和专业发展，促进新兴学科进步。
- 每年SPIE在全球范围组织和赞助举办25个重要技术性论坛、行业展会及教育项目。

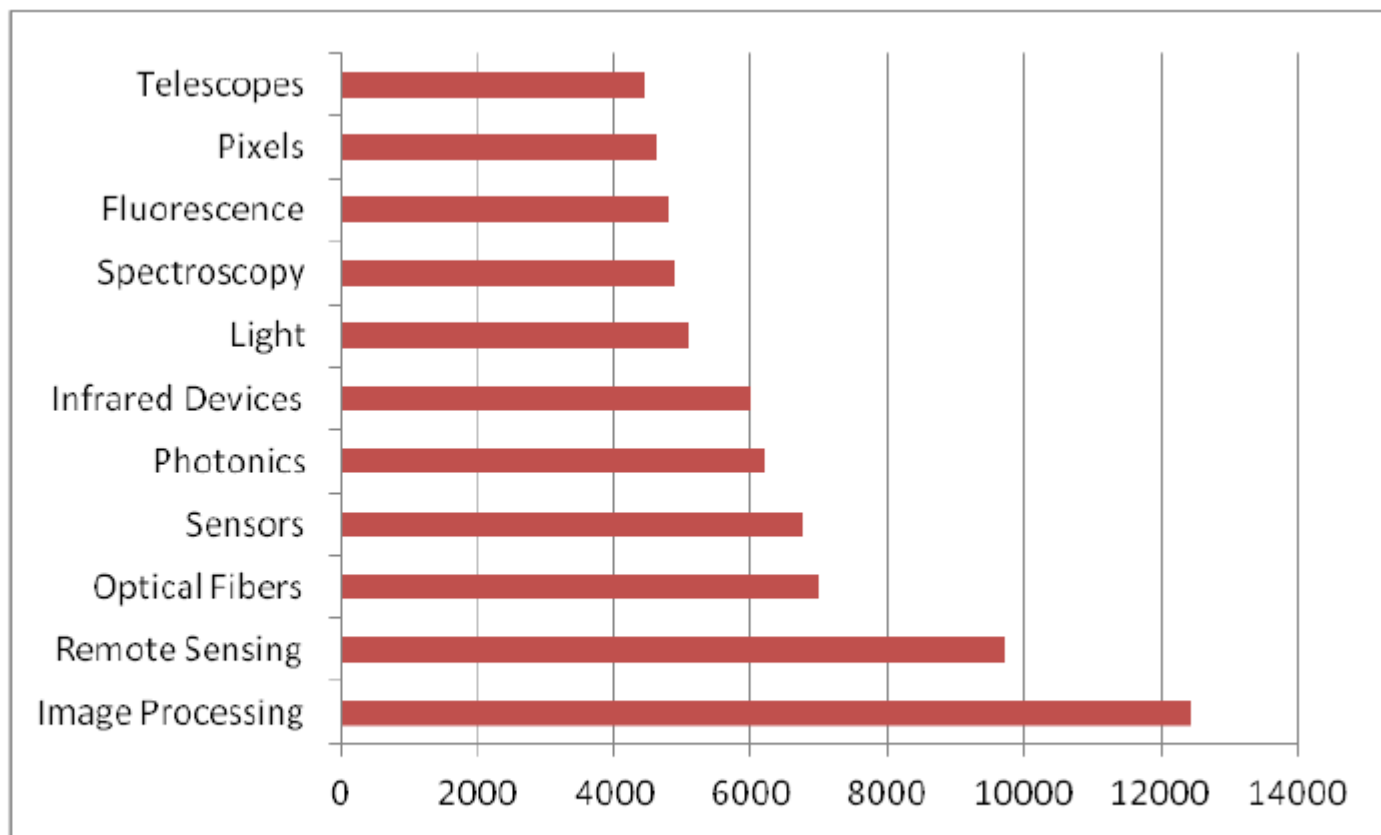


SPIE. 光学与光子学及相关学科

- 天文学
- 生物医学光学
- 国防与安全
- 电子影像与信号处理
- 照明与显示
- 激光技术
- 刻蚀技术
- 纳米科技
- 光学设计与光学工程
- 光通讯
- 物理学
- 遥感
- 测量与传感
- 太阳能及可替代能源

SPIE. 常用关键词涵盖多个光学的应用领域

- 望远镜 (天文)
- 像素 (电子)
- 荧光性 (理化)
- 光谱法 (理化)
- 光 (照明)
- 红外设备 (传感)
- 光子 (理化)
- 感应器 (传感)
- 光纤 (通讯)
- 遥感 (传感)
- 图像处理 (电子)

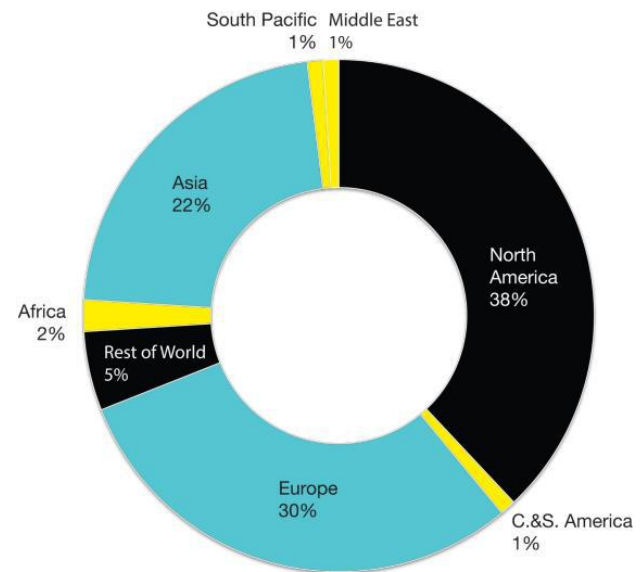


* 以上图表均来自近十年数据。

SPIE Digital Library (数字图书馆)

- 世界上最大的光学和光子学文献资料库，超过11,000卷 **SPIE会议录**，年新增350卷，首卷可回溯至1963年。
- 11种光学**核心期刊**，首卷回溯至1962年 (*Optical Engineering*)
- 超过400种 **电子图书** (1989~2019年)
- SPIE 文献作者来自全球各地，且越来越多来自中国和其他亚太地区的作者投稿。

北美 38%
欧洲 30%
亚太 22%



SPIE Conference Proceedings (会议录)

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➤ **SPIE 会议录**：国际光学工程学会每年主办召开300多场国际性和地区性学术会议和展览，所形成的会议录文献反映了光学工程应用领域的最新进展和动态，也汇集了光学工程、物理、光学仪器、遥感、激光器、机器人及其工业应用、光电子学、图像处理和计算机等方面的最新研究成果。

➤ **收录总量**：超过48万篇，11,000+卷

➤ **更新频率**：每年更新300-350卷

➤ **收录年限**：1963年至今

➤ **视频讲义数量**：超过22,000个



高品质：据美国专利与商标局统计，SPIE会议录文献已被7万多项已授权专利和3.5万篇申请中的专利引用。大全部会议录被CPCI-S（科学技术会议录索引）、EI（工程索引）收录。

知名订购机构：NASA美国国家航空航天局，ESA欧洲航天局，通用集团，洛克希德·马丁，美国国防分析研究院，国家实验室，霍尼韦尔，西门子等。

近年在中国举办的SPIE知名会议和论坛：

中国会议亚太遥感论坛（SPIE Asia-Pacific Remote Sensing）

模式识别国际研讨会（IWPR） / 数字图像处理国际会议（ICDIP）

机器人与机器视觉国际会议（ICRMV）

激光技术和工业应用高级光刻论坛（SPIE LASE）

环太平洋激光损伤论坛（Pacific Rim Laser Damage）（与上海光机所合办）

先进光学制造和测试技术国际研讨会（AOMATT）（与中国光学会合办）



“SPIE会议录拥有你从别处无法获取的信息，这些内容未在其它地方出版。”

Merete Raarup, Assistant Professor
University of Aarhus, Denmark

“有许多多科研团队在这些会议上呈现他们的研究成果……通过SPIE会议录，这些极具价值的资料可以即刻获得。”

Ruth Mackey, Applied Optics Group
National University of Ireland, Galway



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会议录和期刊的不同特点

背景知识

会议录和期刊可作为互补资源使用。在传播最新科研成果和技术手段方面，相较于期刊，会议录更具备博采众长、新颖、快速的特点。

- 在会议录中，作者可以报告正在进行中的研究，而期刊通常不可以。
- 对于计算机、电子和工程技术等工业领域，会议录被阅读参考的机会大于期刊。

PROCEEDINGS ATTRIBUTES

- Collectively, a record of a conference that reflects state of the art at that time and over time for a continuing series
- Individually, a snapshot of a researcher's project
- The preferred publication for researchers in industry
- A place to publish preliminary findings
- Inconclusive or negative results may be shown, to help others learn
- A means for learning how to write research papers for students
- Reviewed by the conference chairs and program committee; the final paper may reflect this "peer review"
- Inclusive and diverse

谁更适合在会议录中发文？

1. 计算机、电子和工程技术等工业领域的研究人员
2. 想要抢占专利注册先机的企业研究人员
3. 不吝嗇于探讨、分享阶段性研究成果的人
4. 刚刚开始发表论文的本科或研一学生

SPIE Journals (期刊)

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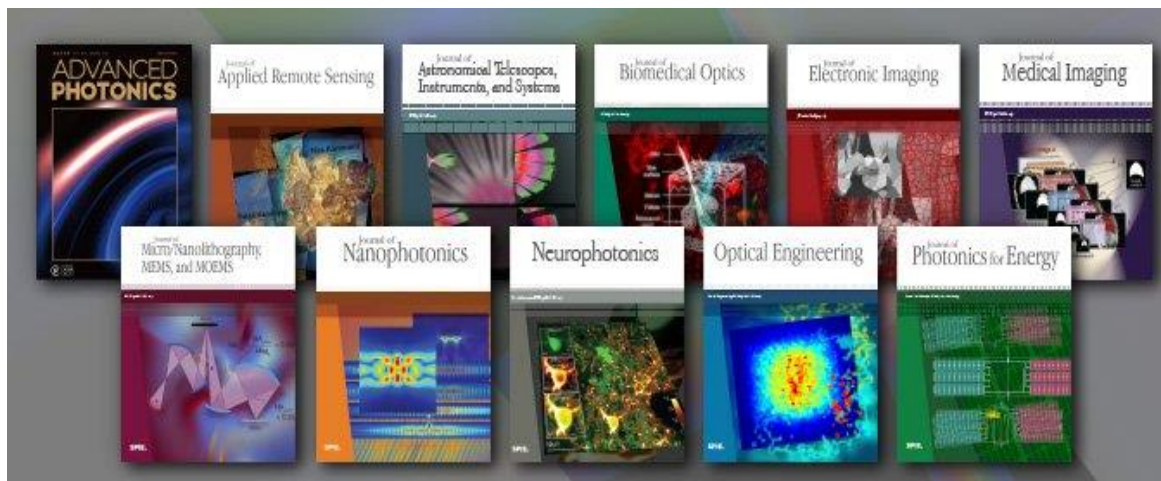
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➤ **SPIE 期刊**：国际光学工程学会出版11种同行评审的专业学术期刊，其中9种被SCI收录，年度平均影响因子1.828。除了**光学工程**和**光子学**，SPIE 期刊还涉及**电子电气工程**、**生物医学工程**、**环境工程**、**材料科学**、**天文学**、**成像学**、**纳米科学**、**神经科学**等交叉学科的前沿研究领域。



期刊种数	11 种	最新创刊	《先进光子学》 <i>2019年 NEW</i>
SCI收录	9种	最高影响因子	4.129 《神经光子学》
更新频率	每年 200 多期	最高引用次数	13,000+ 《生物医学光学期刊》
收录年限	1962 年至今		9300+ 《光学工程》

Optical Engineering 《光学工程》	Journal of Applied Remote Sensing 《遥感应用杂志》
Journal of Biomedical Optics 《生物医学光学期刊》	Journal of Nanophotonics 《纳米光子学杂志》
Journal of Electronic Imaging 《电子成像期刊》	Journal of Photonics for Energy 《能源光子学期刊》
Journal of Medical Imaging 《医学成像期刊》	Neurophotonics 《神经光子学》
Journal of Micro/Nanolithography, MEMS & MOEMS 《微平面印刷、微型制造及微系统技术期刊》	Advanced Photonics <i>New</i> 《先进光子学》
Journal of Astronomical Telescopes, Instruments, and Systems 《天文望远镜、仪器及系统期刊》	

SPIE eBooks (电子图书)



➤ 四种类型的图书：

专著 (Monographs)

辅导教程 (Tutorial Texts)

实践指南 (Field Guides)

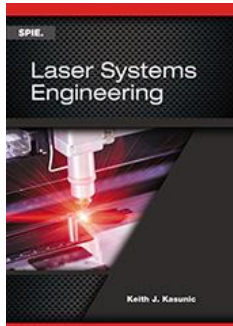
热点系列 (Spotlights)

➤ 每年新增超过25种新书

➤ 1989~2019年出版超过400种电子图书，
且在不断更新



SPIE 电子图书受到专业人士广泛好评。



Laser Systems Engineering 《激光系统工程》

ISSN: 9781510604261

出版年: 2016

页数: 328

作者: Keith J. Kasunic (美国中佛罗里里达大学光学和光子学院副教授)

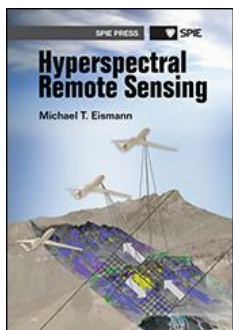
"This book will be a valued tool for the laser professional who either has a broad experience and is looking to architect an integrated system or one who has great depth in a particular area and is looking to transition into the systems-engineering realm."

-Tim J. Valle, Staff Consultant, Ball Aerospace & Technologies Corporation

“对于激光学专业人员，这本书如同一件有价值的工具，无论你从业经验广泛、正在塑造一个多领域集合系统，还是在某个领域造诣深厚、而希望向系统工程转型。”

----**Tim J. Valle**, 美国**Ball Aerospace**公司咨询部

SPIE 电子图书受到专业人士广泛好评。



Hyperspectral Remote Sensing 《高光谱遥感》

ISSN : 9780819487872

出版年 : 2012

页数 : 748

作者 : Michael T. Eismann

(美国空军研究实验室感应器理事会资深科学家、 SPIE 《光学工程》 副主编)

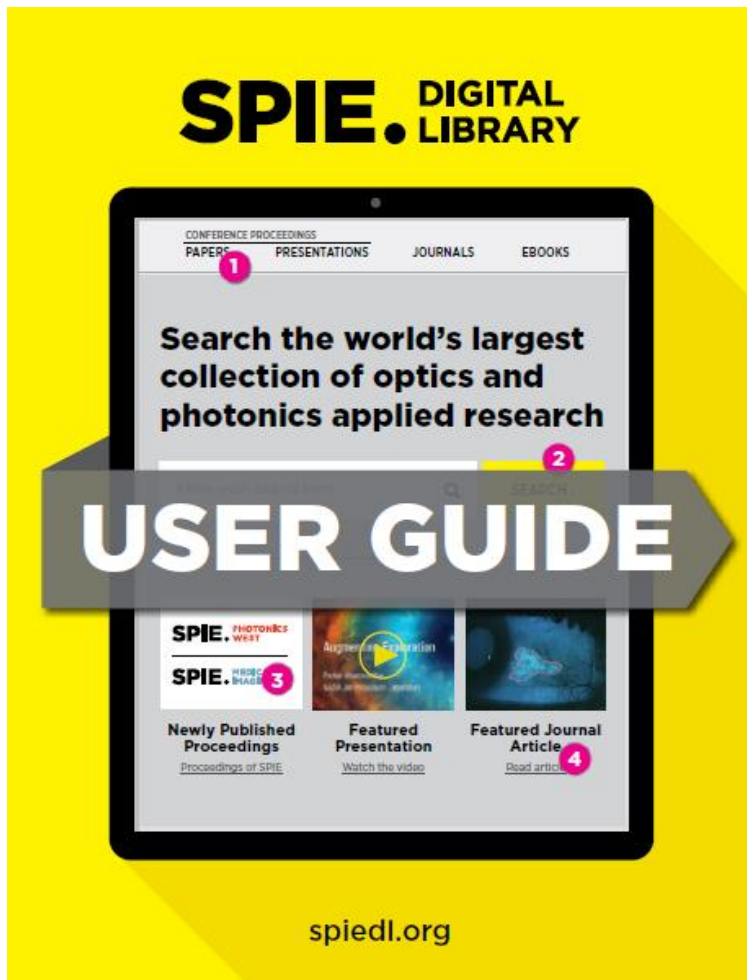
★★★★★ Excellent text for a broad graduate level introduction

By [tvince](#) on March 24, 2013

Format: Hardcover

This is an excellent graduate level text and one of the few that is actually based upon the underlying physics of how light interacts with matter. Many other remote sensing texts are based mostly upon a specific application of remote sensing with a bit of physics sprinkled in when needed. The flow of the material presented is quite natural; beginning with classical E&M radiation, transitioning to fundamental quantum mechanics as applied to atmospheric spectroscopy, and concluding with optical design and data modeling. This other remote sensing book I have read hits all the fundamentals in such a succinct manner. Be warned, this book does

“这是一本很棒的研究生入门书，对于研究生水平的读者，这是一本很好的书，是一本真正基于光与物质间相互作用的物理原理的书。很少有书能这样写——其他遥感的书大都在写某项特定应用，而很少谈及物理原理。书中呈现了一系列自然的材料，以经典的E&M辐射为开篇，进而探讨应用于大气光谱中的基础量子力学原理，最后以光学设计和数据模拟技术为结尾……这本书专为一年级研究生而设。必读！ ---（3人认为这条评价有用）



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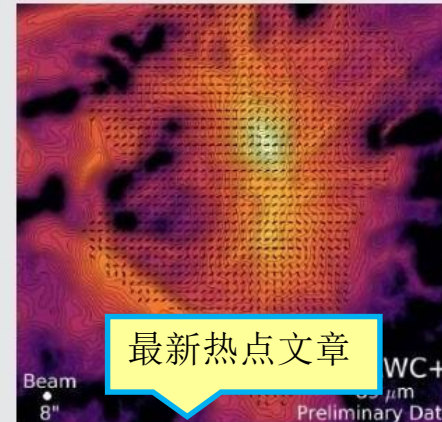


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MAPPING THE NEAREST STARS FOR HABITABLE WORLDS

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SOFIA IN THE ERA OF JWST AND ALMA

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J. Astronomical Telescopes, Instruments, and Systems (2018) [Open Access](#)

[First flight of the Gamma-Ray Imager/Polarimeter for Solar flares \(GRIPS\) Instrument](#)

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BIOMEDICAL OPTICS & MEDICAL IMAGING

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J. Biomedical Optics (2018) [Open Access](#)

[Classification of brain MRI with big data and deep 3D convolutional neural networks](#)

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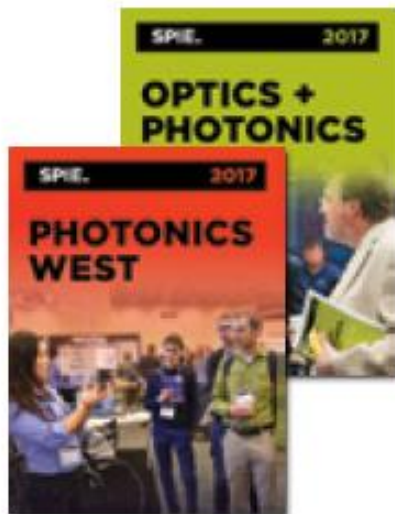


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- » Optical Science & Engineering
- » Physics & Astronomy
- » Remote & Environmental Sensing
- » Renewable Energy & Efficiency

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July 2018


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Image reconstruction using priors from deep learning

Devi Ayyagari, Nisha Ramesh, Dimitri Yatsenko, Tolga Tasdizen, Cristain Atria (2018)

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Hansang Lee, Minseok Park, Junmo Kim (2017)

Next decade in infrared detectors

A. Rogalski (2017)

Unmanned aerial vehicles in astronomy

Federico Biondi et al. (2016)

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NDE

4-8 March 2018
Denver, Colorado, United
States

SPIE. ADVANCED
LITHOGRAPHY

25 February - 1 March
2018
San Jose, California,
United States

SPIE. MEDICAL
IMAGING

10-15 February 2018
Houston, Texas, United
States

SPIE. PHOTONICS
WEST

27 January - 1 February
2018
San Francisco, California,
United States

SPIE. NANOPHOTONICS
AUSTRALASIA

10-13 December 2017
Melbourne, Australia

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16-19 October 2017
Rochester, New York,
United States

SPIE. LASER
DAMAGE

24-27 September 2017
Boulder, Colorado, United
States

SPIE. PHOTOMASK
TECHNOLOGY +
EUV LITHOGRAPHY

11-14 September 2017
Monterey, California,
United States

SPIE. REMOTE
SENSING

11-14 September 2017
Warsaw, Poland

SPIE. SECURITY+
DEFENCE

11-14 September 2017
Warsaw, Poland

— SPIE Smart Structures and Materials + Nondestructive Evaluation and Health Monitoring

— 2018

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Volume	Volume Title
<u>10593</u>	<u>Bioinspiration, Biomimetics, and Bioreplication VIII</u>
<u>10594</u>	<u>Electroactive Polymer Actuators and Devices (EAPAD) XX</u>
<u>10595</u>	<u>Active and Passive Smart Structures and Integrated Systems XII</u>
<u>10596</u>	<u>Behavior and Mechanics of Multifunctional Materials XII</u>
<u>10597</u>	<u>Nano-, Bio-, Info-Tech Sensors, and 3D Systems II</u>
<u>10598</u>	<u>Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2018</u>
<u>10599</u>	<u>Nondestructive Characterization and Monitoring of Advanced Materials, Aerospace, Civil Infrastructure, and Transportation XII</u>
<u>10600</u>	<u>Health Monitoring of Structural and Biological Systems XII</u>
<u>10601</u>	<u>Smart Materials and Nondestructive Evaluation for Energy Systems IV</u>
<u>10602</u>	<u>Smart Structures and NDE for Industry 4.0</u>

PROCEEDINGS VOLUME 10593

SPIE SMART STRUCTURES AND MATERIALS + NONDESTRUCTIVE EVALUATION AND HEALTH MONITORING | 4-8 MARCH 2018

Bioinspiration, Biomimetics, and Bioreplication VIII

Editor(s): [Akhlesh Lakhtakia](#)

作者编辑信息，点击可
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IN THIS VOLUME

12 Sessions, 26 Papers, 5 Presentations

Inaugural Session (1)

Flight I (3)

Material Structures I (1)

Bio-Optics (3)

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Paradigms for biologically inspired design

T. A. Lenau; A.-L. Metzger; T. Hesselberg;

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Proceedings Volume 10593, Bioinspiration, Biomimetics, and Bioreplication VIII; 1059302 (2018); doi: 10.1117/12.2296560

Event: SPIE Smart Structures and Materials + Nondestructive Evaluation and Health Monitoring, 2018, Denver, Colorado, United States

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...fers access to a huge biological repository of well proven design principles that can be used for developing new and innovative products. Biological phenomena can inspire product innovation in as diverse areas as mechanical engineering, medical engineering, nanotechnology, photonics, environmental protection and agriculture. However, a major obstacle for the wider use of biologically inspired design is the knowledge barrier that exist between

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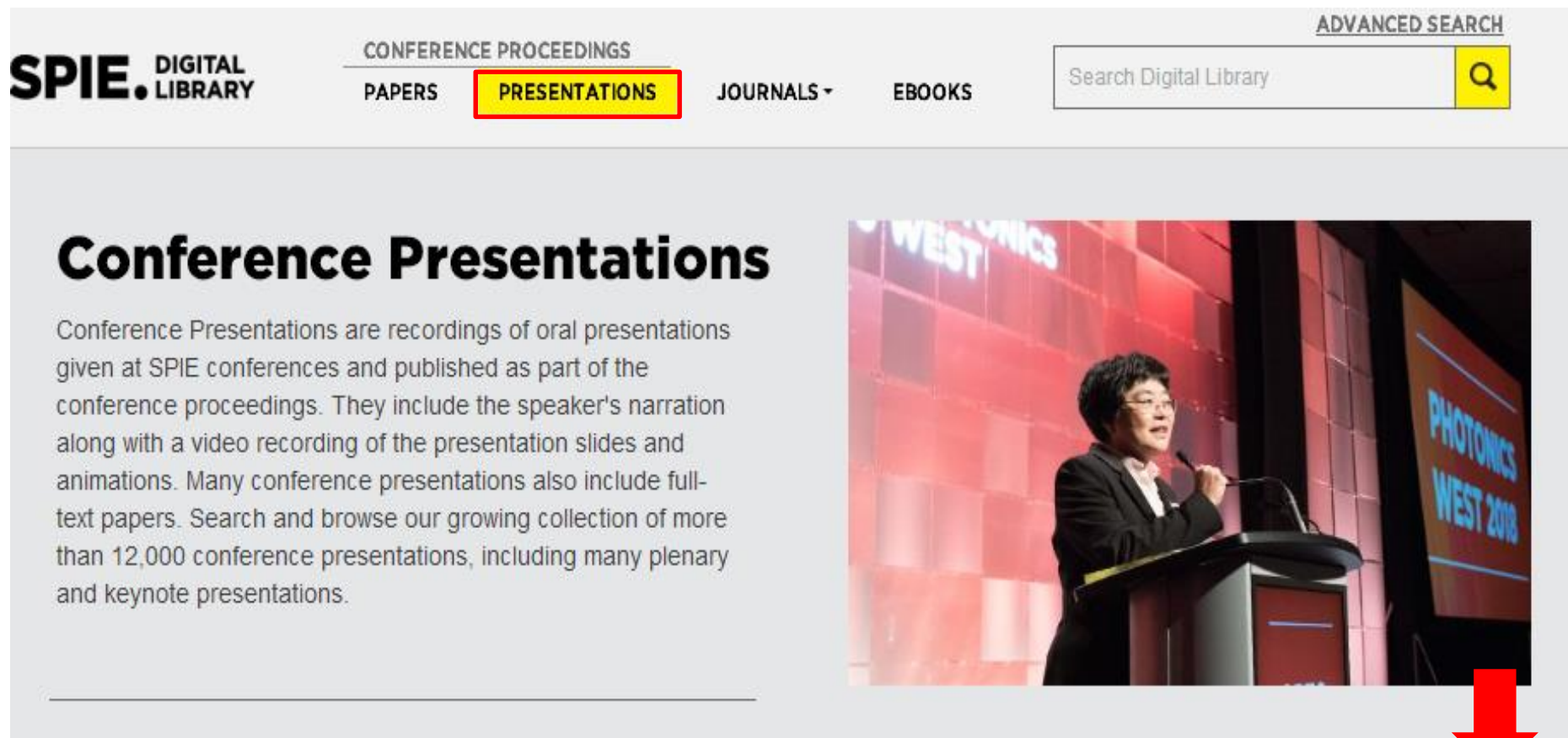
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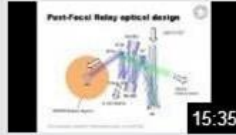



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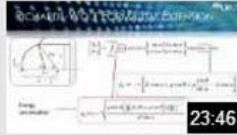

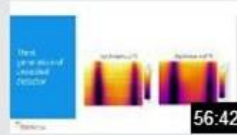
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Hyperspectral evaluation of skin blood oxygen saturation at baseline and during arterial occlusion

Z.Marcinkevics¹, U.Rubins², A.Grabovskis², J.Cimurs², A.Caica¹
zbigis@latnet.lv

¹Department of Human and Animal Physiology, University of Latvia
²Biophotonics Laboratory Institute of Atomic Physics and Spectroscopy, University of Latvia

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Authors: Z. Marcinkevics et al.
Publication Date: 17 May 2018

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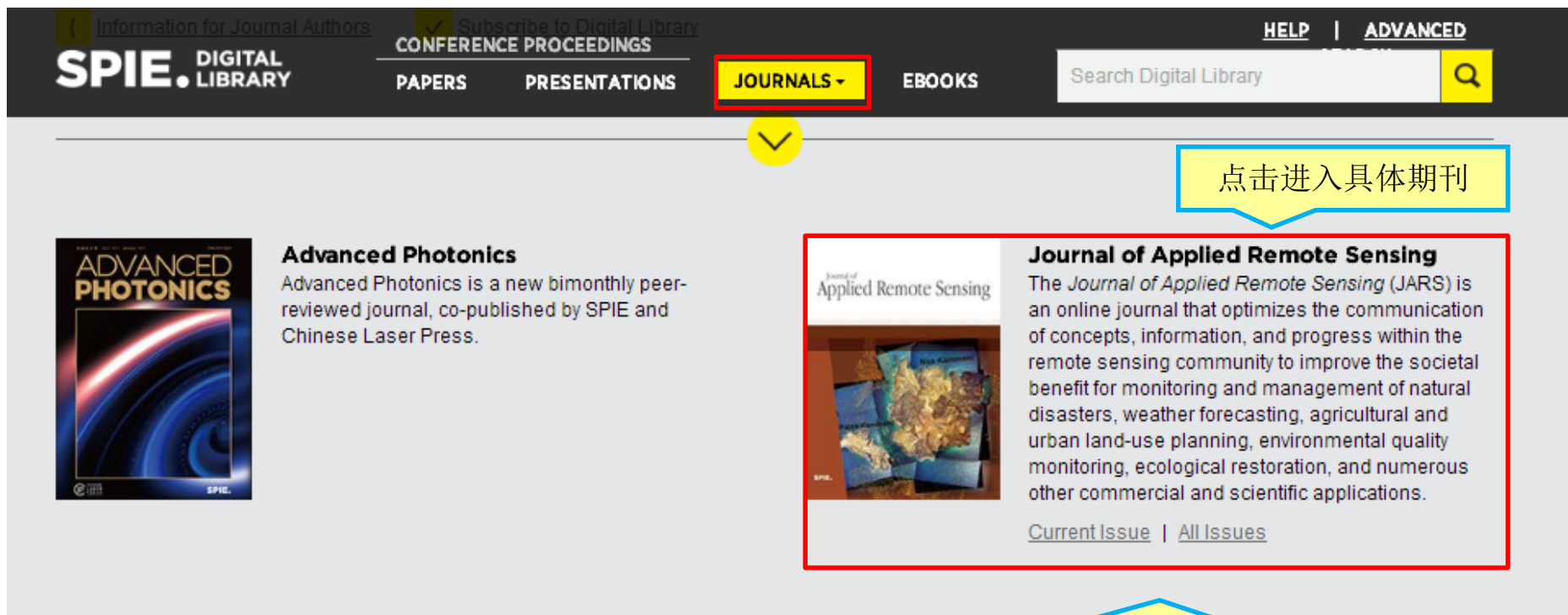
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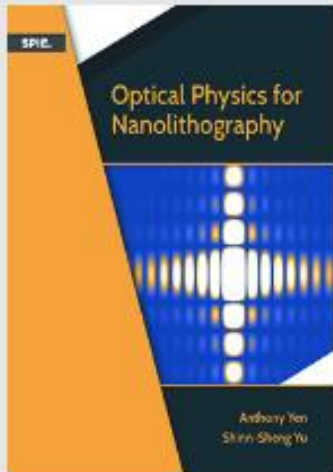


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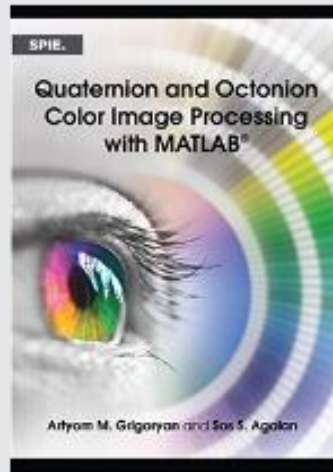
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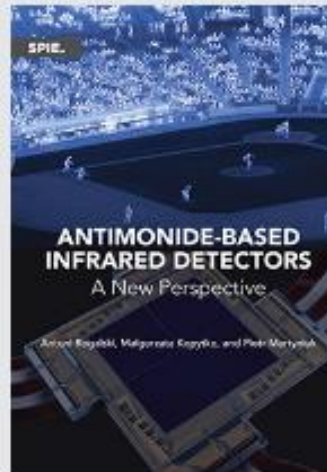
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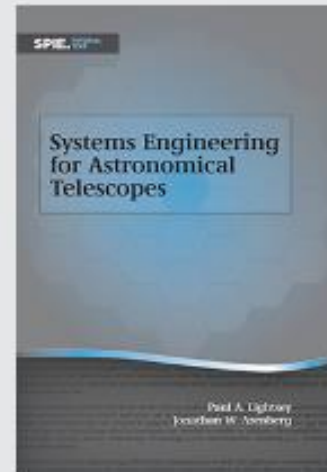
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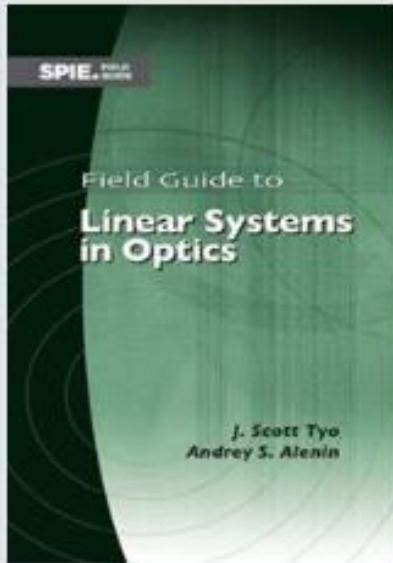
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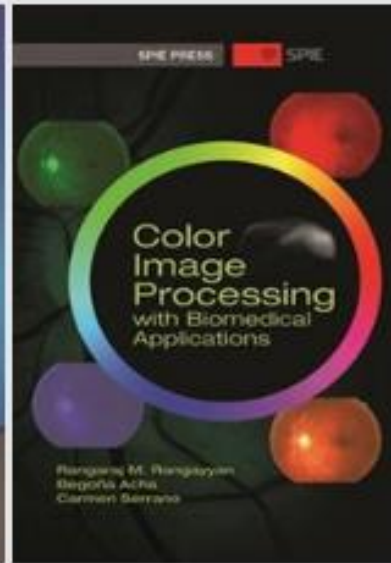
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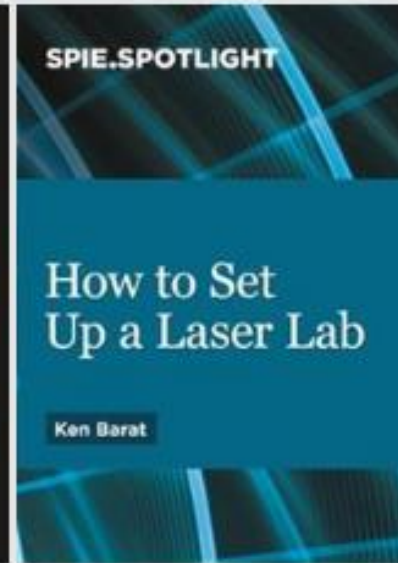
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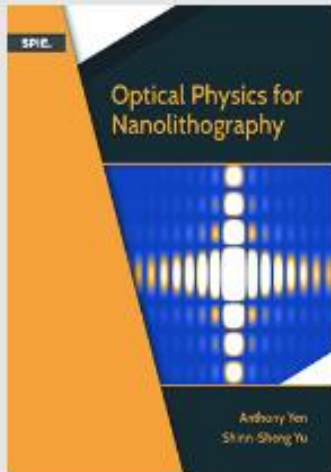
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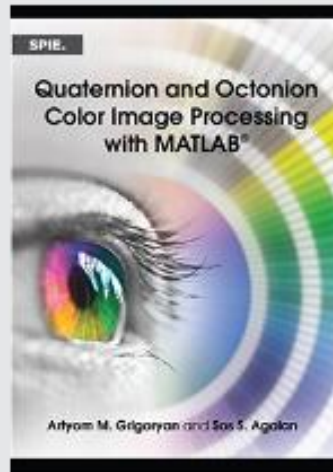


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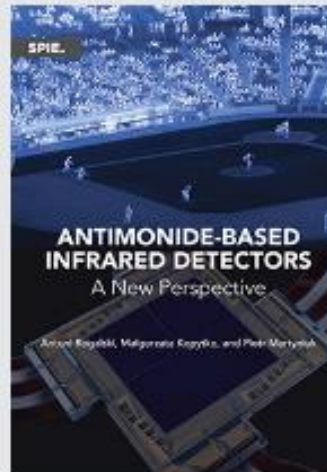
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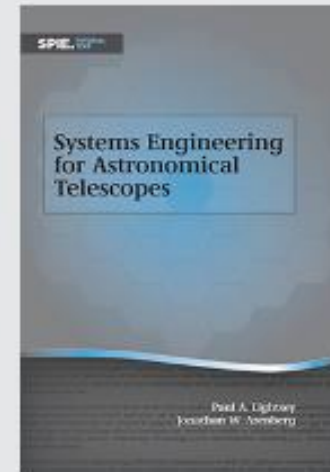
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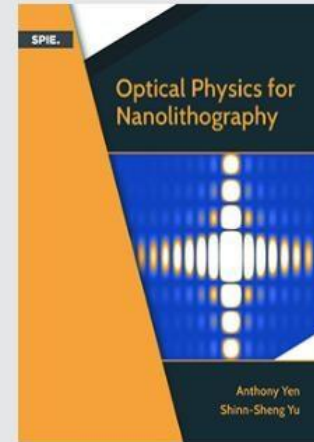
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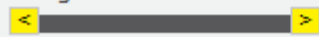
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*State/Province	<input type="text" value="Select"/>
*Zip/Postal Code	<input type="text"/>

填写地址类型、组织机构、街道地址、城市、国家、省份、右边，填完后点击“Next”

NEXT



Professional Information


*Indicate your principal job function

Select ▼

填写职业、选择重点关注方向、
填写最近项目或毕业时间

What is the primary application for your research or product

Select ▼

What is your most recent or projected graduation date (Month / Year)? 

Month

Select ▼

Year

YYYY



SPIE Public Profile

是否愿意创建一个SPIE公共账号来分享专业信息

- I would like to create an SPIE public profile to share my professional information with others in the optics community. [Learn More About Profiles](#)

Communication Preferences

You will be able to sign into your account using your email address or your SPIE username

- Email: Yes, I would like to receive email about SPIE conferences, products, and services.
(SPIE does not disclose email addresses to third parties [Privacy Policy](#))
- Postal Mail: Yes, I would like to receive mail about SPIE conferences, products, and services.
- Third Party Mail: Yes, allow third parties to contact me by mail about related conferences, products, and services.

1. 同意接收SPIE会议、产品、服务信息的邮件
2. 同意通过邮政信箱接收SPIE会议、产品、服务信息
3. 同意第三方通过邮箱通知您关于会议、产品、服务的信息

By creating an account, you agree to [SPIE's Privacy Policy](#)

CREATE ACCOUNT



Thank You



Thank you for creating an SPIE account.

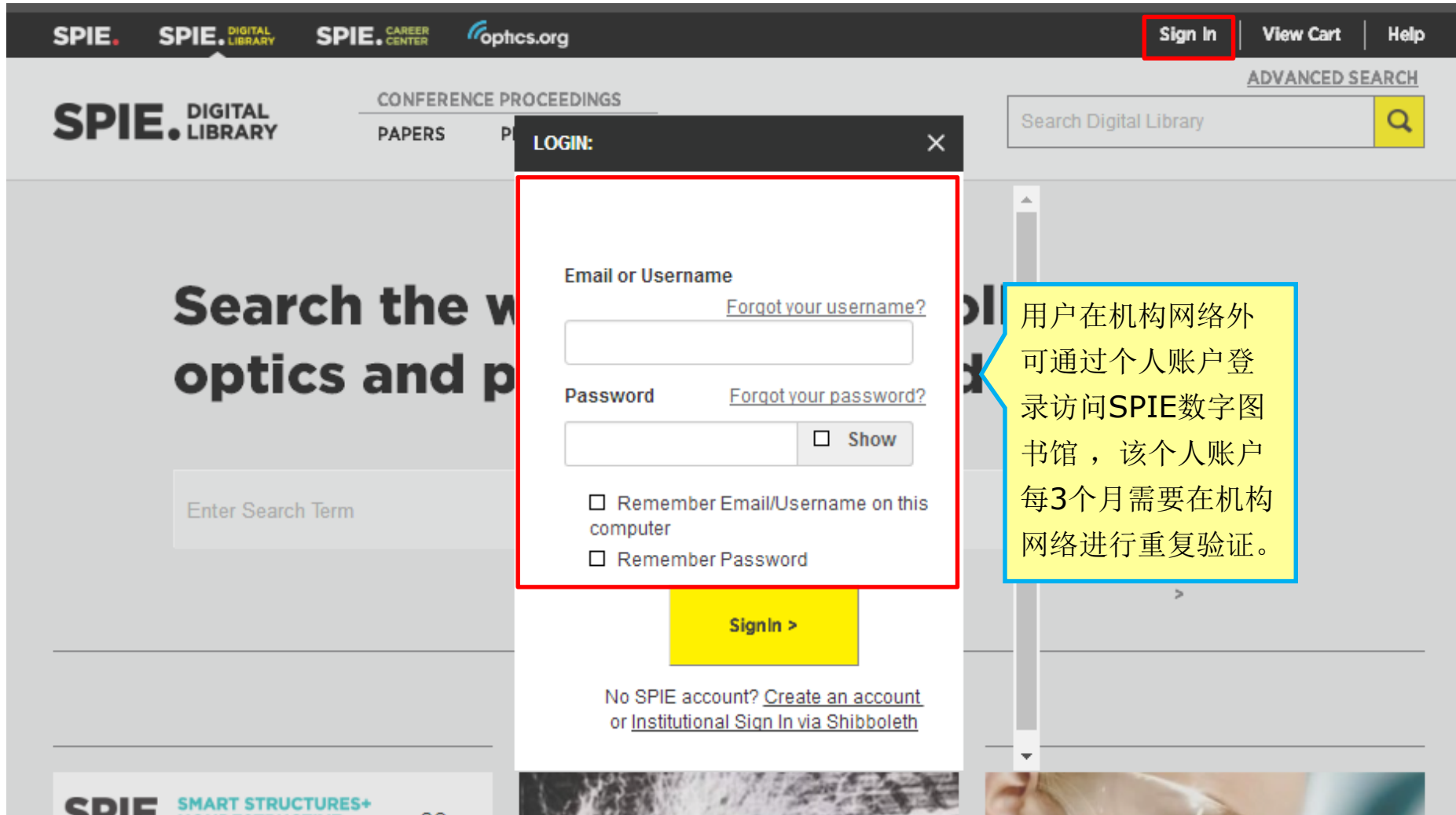
Your account details were sent to wendy@igroup.com.cn. For your convenience, you have been logged in to your account.

Closing this message will return you to your previous page. (If you came from the SPIE Digital Library or Career Center, you will be redirected.)

成功注册!

注册信息将会发送至您的邮箱





The screenshot shows the SPIE Digital Library website with a login modal window open. The modal window is titled "LOGIN:" and contains the following elements:

- Navigation bar: SPIE, SPIE. DIGITAL LIBRARY, SPIE. CAREER CENTER, optics.org, Sign In (highlighted in red), View Cart, Help.
- Search bar: Search Digital Library (with a magnifying glass icon).
- Modal window: "LOGIN:" with a close button (X).
- Form fields: "Email or Username" (with a "Forgot your username?" link) and "Password" (with a "Forgot your password?" link and a "Show" checkbox).
- Checkboxes: "Remember Email/Username on this computer" and "Remember Password".
- Buttons: "Sign In >" (highlighted in yellow).
- Footer: "No SPIE account? [Create an account](#) or [Institutional Sign In via Shibboleth](#)".

A yellow callout box on the right side of the modal window contains the following text:

用户在机构网络外可通过个人账户登录访问SPIE数字图书馆，该个人账户每3个月需要在机构网络进行重复验证。

合理使用

- 请合理使用资源，注意知识产权的保护。
- 请不要使用下载软件进行下载，请不要进行系统性批量下载。



**SPIE 系列数据库 在国内由iGroup公司代理，
请就近联系以下iGroup各代表处。**

iGroup · 中国

Email : info@igroup.com.cn

上海：上海市斜土路2899号甲B栋601
(光启文化广场)

Tel: 021-64454595

Fax: 8032

广州：越秀区东风中路318号嘉业大厦
2705室(510030)

Tel: 020-83274076

Fax: 020-83274078

北京：海淀区知春路1号学院国际大厦
1213室 (100083)

Tel: 010-82331971

Fax: 010-82331961

西安：陕西省西安市碑林区长安路长安
大街3号CASA--A座--2207(710061)

Tel: 029-89353458

Fax: 029-89353458

更多内容，请访问 www.igroup.com.cn

iGroup服务

iGroup信息服务



“iGroup信息服务” 微信公众号是国内最受欢迎的学术图书馆员职业培训和互动交流平台之一。

学术猫



“学术猫” 微信公众平台专注于为学术研究者提供信息检索、讲座培训以及论文写作投稿与就业方面的知识经验。